

Title (en)

Quick disconnect automotive battery connection.

Title (de)

Schnelltrennbare Verbindung für Fahrzeugbatterie.

Title (fr)

Connection rapidement déconnectable pour batterie de véhicule automobile.

Publication

**EP 0384592 A2 19900829 (EN)**

Application

**EP 90301056 A 19900201**

Priority

US 31499189 A 19890224

Abstract (en)

Plug and socket connectors (12, 14) include mateable pin and socket terminals (56, 58) (see Fig. 2) that are of split design to achieve inward deflection of the pin terminal contacts (64, 66) and outward deflection of the socket terminal contacts (72, 74) with correspondingly high contact forces and large contact surface areas. The terminals (56, 58) are securely mounted in housings (16, 32) that are mateable with one another. One housing (32) includes helically formed cam slots (40) that are dimensioned to receive cam followers (24) unitarily molded with the opposed housing (16). The helical cam slot (40) provides a desirable mechanical advantage during mating and unmating of the plug and socket connectors and contributes to plural directional wiping of the terminals (56, 58) insert molded therein.

IPC 1-7

**H01R 13/623**

IPC 8 full level

**H01R 13/625** (2006.01); **H01R 13/623** (2006.01)

CPC (source: EP US)

**H01R 13/623** (2013.01 - EP US); **H01R 24/20** (2013.01 - EP US); **H01R 24/28** (2013.01 - EP US); **H01R 2101/00** (2013.01 - EP US)

Cited by

US5364521A

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

**US 4895530 A 19900123**; DE 69018673 D1 19950524; DE 69018673 T2 19960111; EP 0384592 A2 19900829; EP 0384592 A3 19910116; EP 0384592 B1 19950419; JP 2660354 B2 19971008; JP H02247989 A 19901003

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**US 31499189 A 19890224**; DE 69018673 T 19900201; EP 90301056 A 19900201; JP 4431690 A 19900223